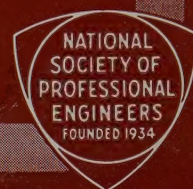




# *the* **ILLINOIS ENGINEER**



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Left to right, President A. J. Boulahanis, Sec. Ralph Frost, Vice-President R. A. Ekström, Jr. and Treasurer Donald L. Renick.

THE ILLINOIS ENGINEER,  
OCTOBER 1958,  
VOLUME XXXIV, NO. 10



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## MEMBERSHIP DRIVE GAINS MOMENTUM

The response of newly registered Professional Engineers to the ISPE invitation to become members under Introductory Membership Plan has increased the membership rapidly during the past three weeks. In order to keep the momentum going at a faster pace for the next Convention, Membership Chairman, Hal Somerschild, has called a strategy meeting of all Chapter members in Springfield October 18. Progress to date will be discussed as well as plans to instill greater interest in the campaign to get two thousand (2000) NEW members this year. Members in many chapter areas have indicated that the establishment of new chapters in rural areas would lead to great numbers of new members. A primary complaint is that it is necessary to travel an almost prohibitive distance to attend chapter meetings.

The 17th ISPE Chapter was formed at Chicago Heights on September 10, and by the time you read this issue it is very likely that three other chapters will be formally organized in the western, northwestern and northeastern Chicago Suburbs. Other potential chapter areas are Mattoon-Charleston-Paris, Danville, Robinson-Penceville-Olney, Quincy, Bloomington, and Kankakee. These areas could produce a total of one thousand members. Conveniently located new chapters may be the answer to our goal of "2000 or bust."

Below are listed new members accepted to Sept. 20.

### NEW MEMBERS

*Professional*  
Lieber, Fred R., 106 E. Rockwell, Arlington Hts. (Chicago)—secured by F. W. Edwards  
Lieber, Donald D., 29 Alken Ct., Springfield (Capital)—secured by R. C. Hahn  
Lawaway, Clifford M., Jr., 114 S. Douglas Ave., Springfield (Capital)—R. C. Hahn  
Leschell, Thomas Roy, 1801 Oak St., Northbrook (Chicago)—secured by C. J. McLean  
Lynch, Jack E., 312 Laurel Ave., Wilmette (Chicago)—secured by Linas Brown  
Meyers, Marvel F., Apt. A, 127 W. Canedy, Springfield (Capital)—secured by Edw. M. Anderson  
Mish, Joseph S., Box 12, Mt. Vernon (Ambrav)—secured by I. C. Bliss  
Mullon, John E., 308 N. Dury Lane, Arlington Hts. (Chicago)—transfer from Mich. SPE  
Merson, Dwight R., 718 Center St., Plainfield (Joliet)—secured by B. Anderhous  
Megrinetti, Guy Peter, 516 E. Lincoln St., Arlington Hts. (Chicago)—secured by Marks and Gawrusek  
Mota, William Herman, 346 Church St., Elmhurst (Chicago)—secured by C. J. McLean  
Moser, George L., 311 Notre Dame, Joliet (Joliet)—secured by Bernard Anderhous  
Mossers, Wm. B., Jr., 2069 Ramsey Drive, Decatur (Central Illinois)  
Morman, Harold L., 568 Westley Rd., Glencoe (Chicago)  
Morton, Rodger K., 824 West Macon, Decatur (Central Illinois)  
Mower, William H., 441 46th St., Moline (West Central)  
Moss, Joseph Andrew, R. 2, Naperville (Chicago)

Strealdorf, John H., East Alton (Madison County)—secured by E. R. Bolo  
Trisch, Donald L., 1401 W. Marietta St., Decatur (Central Illinois)  
Alschuler, Joseph Adrian, 4514½ N. Paulina, Chicago 40 (Chicago)  
Huxhold, Earle George., 406 Ames, Libertyville (Lake County)  
Morita, William I., 3430 W. Evergreen, Chicago 51 (Chicago)—secured by Phillip Derig

### State (Transfer in Grade from Student to State)

O'Dell, William L., 1110 N. 79th St., E. St. Louis (St. Clair)

### Affiliate

Baker, Peter A., RFD Faunt Rd., Mundelein (Lake County)

### Engineer-in-Training

Finley, Jack Eugene, R. 3, Springfield (Capital)—secured by L. K. Crawford

Lahay, Ivan Joseph, 1023 W. High, Edwardsville (Madison County)—secured by Robert B. Dunlap

Jacobsen, Floyd K., 609 S. Walnut, Springfield (Capital)—secured by R. C. Hahn

Runyen, James R., 1619 S. Pasfield, Springfield (Capital)—secured by Roland D. Collins

Miteff, William D., 11 Sumac Ave., Waukegan (Lake County)

Petit, Richard G., 220 N. Virginia, Crystal Lake (DuKane)—secured by Clair E. Hutchison

Pire, Anthony Eugene, W. Park Ct., Joliet (Joliet)—secured by J. Adamie

Stults, Kenneth P., 2525 S. Ninth St., Springfield (Capital)—secured by R. C. Hahn

Tracy, John Edward, 3253 Wayne Ave., Granite City (Madison County)—secured by E. R. Bolo

Vercelote, Donald Louis, 30 N. Broadway, Joliet (Joliet)

Wuellner, Ned Henry, 1715 Liberty St., Alton (Madison County)—secured by J. D. Voorhees

### Deceased

Irwin, Orlando W., Chicago (N '52) (Chicago) September 12, 1958

Rossiter, Edgar A., DeLand, Florida (S '45) (Chicago) August 10, 1958

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## SUBSCRIPTION RATES

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# PRESIDENT'S MESSAGE

By FRANK W. EDWARDS

Does Illinois need more engineering schools? Do existing engineering schools supported by the state need to expand? These are questions confronting the Illinois Commission of Higher Education.

It may be recalled that Governor Stratton appointed Walter E. Hanson, a member of ISPE, to the Commission of Higher Education. Perhaps not known is the more recent appointment by the Illinois Engineering Council of a Special Advisory Committee, comprised of three ISPE members, to advise the commission on engineering education. Past president A. W. Neureuther, Rex V. Woodward and the writer are the members of this Special Committee.



Many data have been compiled by the Commission staff. The data collected point to the conclusion that many more high school graduates will be clamoring for admission to engineering colleges during the next few years. This conclusion provides ammunition for those who advocate additional schools or expansion of existing schools. Ignored is the fact that these data do not pertain to some of the more basic problems.

Quality rather than quantity of engineering college graduates is the most important problem. The number of qualified faculty members definitely is limited. It is alarming to observe the great influx of inexperienced graduates to engineering college faculties. Many lessons in engineering cannot be learned in the classroom. Yet recent graduates without engineering experience profess to teach engineering in our colleges. Rather than expand facilities under these circumstances, it seems sound to reserve the limited resources for conducting professional education for those who can benefit most both themselves and society. Scientific testing procedures which produce reliable results are available today for selecting candidates capable of completing a rigorous engineering curriculum. These same procedures should be used for selecting experienced engineers for faculty appointments.

Another major problem stems from the fact that total engineering manpower comprises two distinct parts. On the one hand is the professional engineer, who needs a well rounded education as well as intensive instruction in mathematics, science and technology in order that he may apply basic principles of science and technology to new situations and reach sound decisions. On the other

hand, the engineering technician is skilled in engineering procedures. Although technical in nature, the technician's work is largely repetitive. He has learned to perform certain operations and within limits can exercise judgment in doing them. A four year college education however, is not required to learn these techniques.

Unfortunately the major source of supply at the present time of professional engineers and of engineering technicians is the same; i.e., the engineering college. The number of technical institutes offering two year training programs is limited. As a result many industries recruit engineering college graduates only to use them in positions which might better be filled by trained technicians. The number of technicians desirable to each professional engineer has been estimated variously from two to ten. If, as indicated by these figures, possibly one third or less of total engineering manpower requirements needs to be graduate engineers, concentrated effort on fully professional education for that third would help to raise the quality of these graduates.

Before adding to the number of engineering schools or expanding facilities of existing engineering colleges, an intensive study should be made to determine insofar as possible, the portion of total engineering manpower requirements which must be met by graduate professional engineers and the portion which can be met by trained technicians.

It is possible that such studies may lead to the conclusion that more training programs of the technical institute type are needed to supply sufficient number of trained engineering technicians, whereas existing professional engineering colleges may already have adequate facilities for providing the needs for creating professional engineers.

Widespread publicity of recent years regarding shortage of engineers has created impressions in the minds of many laymen and educators which can lead to erroneous and costly decisions. In matters as important as this where expenditures of millions of dollars are involved, fundamental factors must be considered. The emphasis should be placed on raising standards materially in professional schools. This cannot be done simply by increasing enrollment. In fact such a procedure might have the opposite effect. Thorough studies at this time should lead to sound decisions and planning for the future.

Prejudice is a great timesaver; it enables one to form opinions without bothering to get the facts.

L. K. SILLCOX



# Enforcement of the P.E. Act

ANTHONY S. ZUMMER, P.E., Member of the Illinois Bar

*The Illinois Professional Engineering Act has only been on record for ten years, and already it has started to show its malady—"Lack of exercise!"*

From its conception the Society had taken the position that the State of Illinois needed a law to regulate Professional Engineering in order to protect the public, as well as to firmly establish engineering as a profession. It was through the efforts of a few dedicated members of the Society that the Illinois Professional Engineering Act was passed by the Legislature and signed by the late Governor Green some ten years ago.

Now, the Society has the task of looking into the activities of about seven million people to determine whether the Act is being violated. If transgressions are being made upon the Act, there is a possibility that the public will be endangered and that the reputation of the engineering profession may be blackened by a quack. For these reasons, the Society must be aggressive in stopping violators.

Since the law enforcement agencies of the State are occupied with enforcement of laws dealing with traffic regulation and laws which protect persons from direct physical harm such as battery, mayhem, and murder, the Society must accept the obligation of calling the attention of the State to violations of the Act in order to make the Act really effective. Since the Society has no paid staff to investigate and determine whether there are infractions, this responsibility rests upon all members of the Society.

Each member, as a citizen, has an obligation to the State to see that the Professional Engineering Act is obeyed. The individual member may fulfill his obligation by notifying his local Ethics and Practices Committee of a violation of the Act. The Committee then will take the necessary steps to see that the Act is enforced. As an alternative, the member, as a citizen, may go to his local State's Attorney and swear out a complaint against the transgressor. The State's Attorney then has the obligation to bring criminal action to restrain the improperly channeled activities of the violator. If however, the State's Attorney fails to bring a criminal action against a transgressor a civil action in equity may be brought to enjoin him from continuing his illegal activity. In a recent case, the Illinois Supreme Court held that a license to practice is a property right in the license; and the courts will enjoin an unlicensed individual from practicing in that activity. If the Courts will be consistent in rendering their decisions, an individual member, a group of members, or the Society may obtain an injunction directed against an engineering quack. It must be borne in mind, though, that the injunction is an order to stop practice, and hence the quack will not be punished for

past activities. However, if the violator continues his practice after the injunction, he is in contempt of court and may be fined and imprisoned.

Although the aforementioned procedures have been available to the individual members and the Society for over ten years, there has not been a single case in the State of Illinois wherein a criminal action has been brought against a violator of the Act. The lack of activity on the part of the Society, and of the members as individuals, indicates that there is a lack of real interest in the enforcement of the Act. Unfortunately, this apathy dooms the Act to remain just so many printed pages, and eventually the Illinois Professional Engineering Act will die on the Statute Book.

## EDITORS NOTE:

An interesting footnote to Mr. Zimmer's article is that the P.E. Act is now in the process of being tested in the Courts. A charge was brought against a man in Chicago for allegedly violating the Engineer Act by posing as a licensed Professional Engineer when in fact he was not licensed. The case was originally set for Sept. 17, but upon request of the defendant it was passed until October 16. The outcome of this case will be of interest to all engineers in Illinois.

## TRIAL ON VIOLATION OF PROFESSIONAL ENGINEERING ACT

On October 16 the attention of the Engineering Profession in Illinois will be centered on the Municipal Court of Chicago Branch #27 at 1121 South State Street. Slated for trial on that date is a case concerning a violation of the Illinois Professional Engineering Act.

Although violations of the Illinois Professional Engineering Act have occurred, and are continuing to occur within the City of Chicago and the surrounding area this is one of the first instances where the trial stage has been reached.

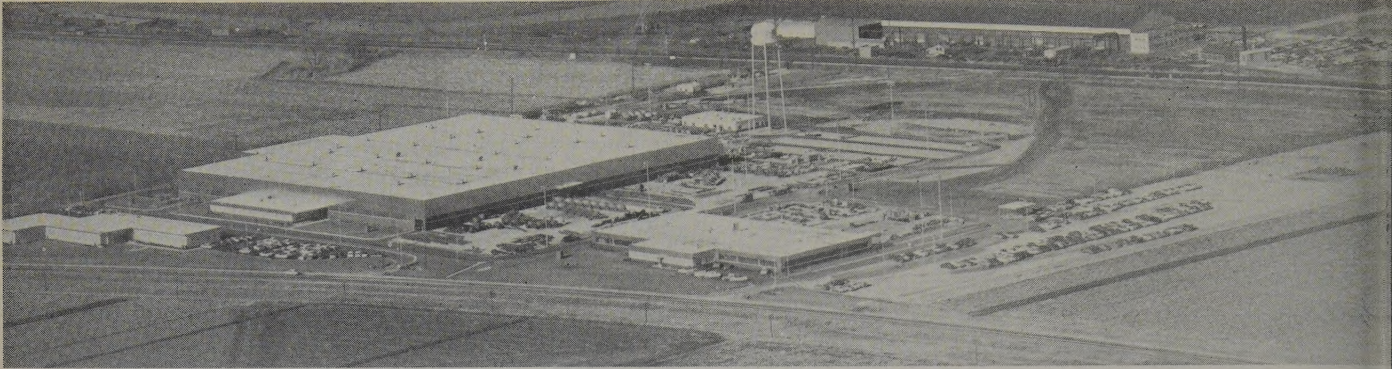
Unfamiliar to most of the general public, the Professional Engineering Act was passed in 1945 to safeguard the life, health, and property of the public. This act is similar in purpose to those establishing Board certification for doctors and Bar examinations for lawyers as a requisite to offering their services professionally. It inflicts a potential punishment on those individuals who offer to practice or do practice professional engineering in this state without a certificate of registration.

The importance of successfully stamping out engineering quacks and their detrimental influence is seen in the nature of an awareness, on the part of the public, of the engineering profession and its influence on our present economy.

Any persons aware of violations of the Act should notify the Illinois Society of Professional Engineers, Chicago Chapter.



# ENGINEERING BASIS OF BLAW-KNOX EXPANSION



Blaw-Knox Mattoon Equipment Division

With more than 5,000 engineers of all branches of the profession interspersed throughout many areas of the world where Blaw-Knox installations exist, the expansive operations are truly a responsibility more with engineering than with manufacturing. The broad scope of Blaw-Knox Company products and services are available to practically every industry in the world.

The foregoing was a general picture conveyed to the engineer members of the Champaign Chapter on a recent visit to the Mattoon Equipment Works of Blaw-Knox at Mattoon, Illinois.

Mr. Henry J. Krack assumed his new duties as plant manager at Mattoon only two days prior to the chapter's visit; however, he graciously took time out to personally take a group through the plant. Mr. W. D. Cleaves, Manager of Engineering and Development; R. F. Wedderburn, Production Manager; I. L. McCandless, Design Engineer; Ross Barnes, Chief Products Engineer for Concrete Equipment; and Edwin Rowe, Plant Superintendent assisted in giving the Blaw-Knox story and conducting groups in the tour of the plant. Mr. Krack, a native of Nuremberg, Germany, has become internationally known as a mechanical engineer. Mr. Cleaves, a mechanical engineer, had spent 10 years with the Company's Chemical Division as a vessel and chemical equipment designer. He participated in nuclear developments at Oak Ridge, and at the reactor test station in Idaho. A by-product of Blaw-Knox engineering assistance in the Atomic Energy field was the development of a soybean extraction process. A matter of local interest was that Blaw-Knox designed and equipped a plant for soybean processing for Staley's at Decatur.

No story of Blaw-Knox is complete without brief reference to the company's active and interesting history. Like many other major manufacturers serving industry, Blaw-Knox grew to its present stature from a rather modest beginning. In 1956, the company celebrated its first fifty years of operation.

The Blaw Collapsible Steel Centering Company was founded in 1906. Notable projects like the Panama Canal and the Delaware Aqueduct for New York City's water supply led to formation of the Blaw Steel Construction Company in 1912. Transmission towers were added to

the product line that year, and by World War I clamshell buckets were becoming important company products.

In 1917, the company engaged in its first merger when the Knox Pressed and Welded Steel Company became a part of Blaw Steel Construction Company. Two years later it became the Blaw-Knox Company.

Established on a limited scale in two major markets—construction and steel—the company began to expand substantially during the 1920's.

Their first move toward the chemical industries was a decision to manufacture pressure vessels. The addition of steel grating to the line gave the company a product widely used throughout all industries. Radio tower manufacture was eventually added to transmission tower production. A purchase in 1928 introduced the company to the market for gas cleaners, the second move of the company toward the utilities market.

In 1929 purchase of A. W. French & Co. maker of road building equipment, was a factor in establishing a more complete package of road building equipment.

One of the significant developments of this era was the 1929 purchase of Lewis Foundry and Machine Company; National Alloy Steel Company; and Union Steel Castings Company, which also owned Pittsburgh Rolling Corporation.

This acquisition of four foundry companies substantially changed the nature of Blaw-Knox, giving it a dominant position in the metallurgical industries market.

On April 2, 1930 Blaw-Knox applied for listing on the New York Stock Exchange and 1,322,395 shares were listed for trading.

In 1937 Blaw-Knox purchased Power Piping Company and Power Piping Construction Company. This placed them in the fields of prefabricated piping and fire protection sprinkler systems.

During World War II the Blaw-Knox contribution was significant, earning for the company seven Army Navy "E" awards with a total of 16 stars, including renewals. Though the company became a prime supplier of gun mounts and slides during the war, from the standpoint of eventual peacetime application the most important wartime activity was execution of a contract

(Continued on page 15)



## NOMINEES FOR ISPE OFFICERS ANNOUNCED

Section 5 of the Bylaws of the Illinois Society of Professional Engineers requires that announcement be made to the membership of nominations for officers of the Society no later than October 31. Normally the list is not made available until September 30; however, due to earlier printing deadlines of the *ILLINOIS ENGINEER*, A. W. Neureuther, Past President and Chairman of the Nominating Committee, cooperated to provide the list of nominees several days early.



A. W. Neureuther

The following persons have been selected by your nominating committee and each has ac-

cepted the nomination, to be voted upon in December, 1958. The elected slate of officers will assume office following the convention in April 1959.

President . . . . .	Donald S. Magowan
Vice President . . . . .	LeVerne D. Hudson
Secretary-Treasurer . . . . .	John E. Housiaux
National Director . . . . .	M. E. Amstutz
National Director . . . . .	C. J. McLean
National Director . . . . .	W. S. Gray

National Director (Alternate) . . . . C. E. Missman  
Illinois Engineering Council  
Representative . . . . . Dwain M. Wallace

## JOLIET SPONSORS 17TH CHAPTER

By BERNARD ANDERHOUS

Chairman, Membership Committee

As reported previously in this Bulletin, one of the projects of the Membership Committee was the formation of a new chapter in the Chicago Heights—Park Forest area. On Wednesday evening September 10, 1958, this project was brought to a successful conclusion.

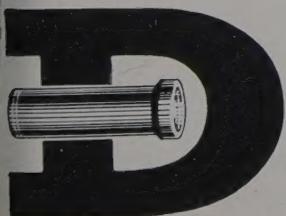
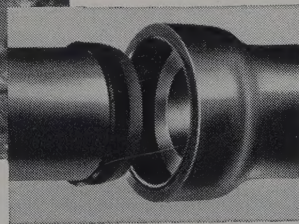
Through the past several months your committee has been meeting and formulating plans. The work officially started last May with the combing of the State of Illinois Roster of Registered Professional Engineers for those living in the target area. A 3 × 5 card was prepared on each such prospect. Arrangements were made at the Lincoln Heights Restaurant near Chicago Heights for the organizational dinner meeting. Letter invitations were prepared along with reply postcards. Those were stuffed into envelopes addressed with the aid of the 3 × 5 cards. Sealed and stamped, they were mailed out about three weeks before the meeting. About 350 invitations were sent out. During all of this time, information and literature were busily being gathered from the National and State headquarters and from a number of individuals. Our final planning session was held on August 27th.

## How the new Dickey Coupling locks in sewage—locks out roots

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If it's made of clay it's good . . . if it's made by Dickey it's better



New members: George E. Bailie, Chicago Heights, Ill.; P. W. Bielfeldt, Harvey, Ill.; James A. Depew, Crete, Ill.; Juan R. De Torres, Chicago Heights, Ill. (Temp. Co-publicity Chairman); Regner A. Ekstrom, Jr., Markham, Ill. (Temp. Vice-President); Ralph S. Frost, Matteson, Ill. (Temp. Secretary); William L. Hickman, Hammond, Ind.; Ivan J. Law, Park Forest, Ill.; Oren R. Link, Frankfort, Ill.; James E. Mulford, Chicago Heights, Ill. (Temp. Co-publicity Chairman); Donald L. Renick, Homewood, Ill. (Temp. Treasurer); Joseph W. Scheck, Crete, Ill.; Herman Zander, Chicago, Ill. (EIT).

Representing Joliet Chapter were: Bernard Anderhous, Fred Bolling, R. A. Brown, J. R. Gates, Howard Hassert, Wayne Madden, L. W. Keeler, D. J. Larson, W. F. Waltz and S. K. Westphal.

Representing Chicago Chapter were: Geo. J. Chlebicki and G. M. Marks.

And representing I.S.P.E. was Executive Secretary Larry Goddard.

Everyone concerned in this project is to be congratulated, but special thanks are due Wayne Madden, Bob Brown, Don Larson and Bernard Anderhous for their all-out efforts.

Just because we have had one success the Membership Committee is not going to get heady and collapse. We have three big projects still on our agenda. They are: 1. Our own chapter membership drive in cooperation with the State Membership Committee. 2. Formation of a new chapter in Kankakee. 3. Formation of a Student Chapter at Joliet Junior College.

We hope to have encouraging reports on these in the not too distant future.

### AMBRAW VISITS CASE

Take china and ball clays from England, feldspars from North Carolina, and Dakotas, domestic ball clays from Tennessee and Kentucky, and red clays from Georgia; mix them with water and chemicals in huge tanks—what do we get?—a smooth pasty substance which ultimately becomes vitreous china lavatories, toilet bowls, and sanitary fixtures of all sizes, colors and types. The Ambraw Chapter members learned these facts along with many others in a most interesting and educational tour through the Case Manufacturing Corporation plant at Robinson, Ill. on Wednesday evening, September 17.

Mr. W. G. Young, Vice-President and General Manager of Case, conducted the group of engineers through most of the nine acre plant explaining the processes of production from the raw clays to the final inspections and tests before the finished product is shipped. The seat of the Government may never be in Robinson, but Case officials and citizens are proud of the fact that Robinson is now comfortably close to the Government by having furnished the SEAT.

Prior to the trip through the plant, N. Y. Alvis gave a report of Board actions. The dinner meeting was held in the American Legion Dining Room.

### ISPE BOARD ACTS TO CURB UNETHICAL CONDUCT

The expulsion of one member and stern warning to all professional engineers in Illinois left little doubt relative to ISPE enforcement of the Rules and Canons of Ethics.

The Board of Direction approved the recommendations in part of a Special Committee that investigated the individual who was expelled from the society. The committee was appointed by President Frank Edwards after a newspaper story was printed revealing that the party, a chapter officer, had appeared before a public meeting of a municipal council to discredit the professional reputation of a fellow professional engineer. The Special Committee found after a thorough investigation that the party in question had in fact attacked the professional recommendations of another engineer in public and had held himself out to be an expert in the field of structural engineering, but he (the expelled party) was licensed in an entirely different field of engineering. The Committee found he had used his office in the society to lend importance to his arguments against the recommended project of the other engineer.

The party was afforded every opportunity to refute the charges against him, but he failed to respond to an invitation to appear before the Board or to submit in writing a contradiction of the findings of the committee. The Special Committee made a recommendation in two parts:

1. That he be expelled from membership in the Society.
2. That the matter be referred to the Department of Registration and Education to consider the revocation of his license.

Because of the seriousness of possibly taking away means of livelihood, the Board referred part two of the recommendation back to the committee to make a thorough study of the legal implications and make further recommendations to the Board at its meeting November 1. In conformance to the Constitution of ISPE, the names of parties and the location of the foregoing incident will be furnished to any member upon request.

Making proposals under circumstances which can be construed as bidding was the subject of warning to P.E.'s in a resolution adopted by the Board of Direction at its meeting Sept. 6. The ISPE Ethics and Practice Committee recommended the resolution to clarify policy relative to bidding for engineering services and as a warning to future violators of the ISPE policy. The RESOLUTION which is self-explanatory is printed on the opposite page for the information and guidance of everyone concerned.



## RESOLUTION

WHEREAS it has come to the attention of this Society that certain local governments have recently requested proposals from Consulting Engineers under conditions which were interpreted by the City Officials, the press and the general public as being competition for professional services on a price basis; and

WHEREAS the Ethics and Practice Committee has investigated one such instance and has ascertained that in the opinion of the committee the consulting engineers who submitted proposals had sufficient reason to believe that such proposals would be considered by the city officials, the press and the general public as competitive bids; and

WHEREAS the practice of competitive bidding for professional services has been condemned by the Illinois Society of Professional Engineers, The National Society of Professional Engineers, and by many other societies and associations; and

WHEREAS it is the recommendation of the Ethics and Practice Committee of the Society that a definite policy be adopted with regard to the situation where written proposals are requested under circumstances that make it evident that the proposals will be considered on a competitive price basis even though sealed bids might not be requested,

NOW, THEREFORE, BE IT RESOLVED by the Board of the Illinois Society of Professional Engineers that submission of proposals for professional services under conditions where it can reasonably be assumed that the proposals will be considered as competitive bids shall be considered as a breach of the Canons of Ethics, particularly Canons No. 19 and 26.

BE IT FURTHER RESOLVED that any of the following circumstances shall be considered as evidence that proposals will be considered as competitive bids:

1. Knowledge that more than one firm has been requested to submit proposals which would include

any reference to fee or price for the services involved.

2. Receipt by mail of a request for a proposal.
3. Request for a second proposal after it is known that previous proposals made to the same agency had been considered by the Owner, the press or the general public as competitive bids.

BE IT FURTHER RESOLVED that submission of proposals by members of this Society under circumstances outlined above will call for disciplinary action by this Society.

BE IT FURTHER RESOLVED that the following action shall be considered as proper in the event of requests for proposals under the above conditions:

1. A statement that the Illinois Society of Professional Engineers has ruled that submission of a proposal under such circumstances is a breach of the Canons of Ethics.
2. An offer to negotiate for engagement under provisions of the "Recommended Procedure for Negotiating Engineering Contracts" of the National Society of Professional Engineers, adopted June 1952, which procedure is as follows:
 

"In order to secure the engineering firm most qualified to give service on an engineering project, at a fair and reasonable fee, the following procedure is recommended:

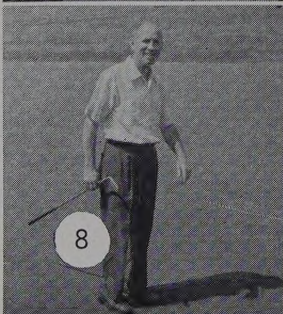
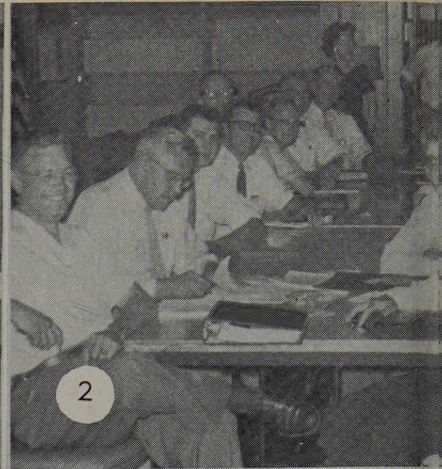
  - "a) One or more engineering firms should be selected for interview. This interview is for the purpose of selection only, and the discussion should center around the qualifications of the firm for the work to be performed.
  - "b) After each firm has been interviewed separately, a selection should be made and the firm selected should again be called in for negotiation of fee and agreement on essential details in connection with the project."

**BE IT FURTHER RESOLVED THAT ANY COMPETITIVE BIDDING FOR PROFESSIONAL SERVICES ON THE PART OF PROFESSIONAL ENGINEERS CONSTITUTES A VIOLATION OF THE CANONS OF ETHICS.**

**BE IT FURTHER RESOLVED THAT THIS RESOLUTION BE CIRCULATED AMONG THE MEMBERS OF THE SOCIETY.**

**ADOPTED BY THE BOARD OF DIRECTION OF THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS SEPTEMBER 6, 1958.**





PICTURES OF EVEN

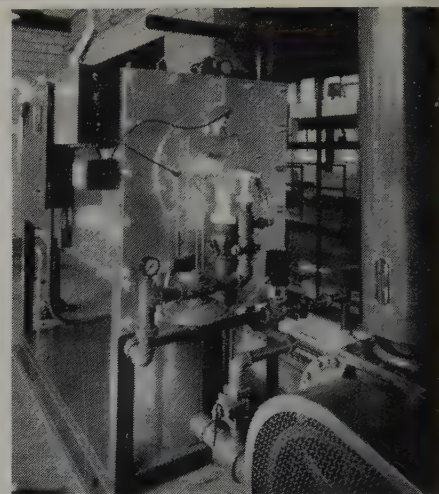
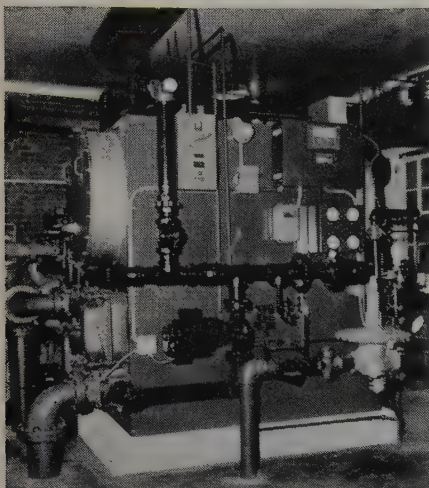






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*Left—HEATX, digester sludge heater at Urbana-Champaign; Wilson & Anderson, Consulting Engrs.*

*Top—Rectangular Collectors at Morris; Baxter & Woodman, Consulting Engrs.*

*Right—CARBALL, CO<sub>2</sub> producer at Moline; Greeley & Hanson, Consulting Engrs.*

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handling and treatment of solids-in-liquids combinations.

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PICTURES ON PAGES 8 AND 9

1. Standing is Robert A. Brown, National Director who served as Master of Ceremonies at Chicago Heights meeting September 10, which resulted in organization of 17th I.S.P.E. Chapter.

2. Board of Direction meeting at Allerton Park, Sept. 6.

3. Left to right, Mr. Sam Witt, Sales Manager Luken Steel Co.; Lloyd Jensen; Gilbert Henning, president Central Illinois Chapter; Robert Kopetz, Program Chairman; William H. Funk, Manager Technical Services, Luken Steel Co., and John Housiaux.

4. W. G. Young showing Ambraw members clays used at Case plant.

5. Left to right, R. W. Eldridge, Virgil Dodson, E. I. Rowe, J. H. Morgan, C. L. Lawrence, and W. S. Daniels.

6. Ambraw meeting at Robinson, Sept. 17.

7. Champaign meeting at Mattoon, Sept. 4.

8. H. H. (Shorty) Bowen.

9. Left to right, Henry Osback, Willard Moore, and Milt Keene.

10. Left to right, Gerald Marks, H. E. Nason, Linas Brown and Sidney Bates.

11, 12, 13. Capital Chapter families enjoying picnic at Lake Springfield, Aug. 26.

SPONSORS NAMED

Fifteen leading engineering figures in a variety of fields have agreed to act as sponsors for the 1959 National Engineers' Week, February 22-28.

The list of sponsors is made up of engineers from industry, education, private practice, government service, and the military.

The fifteen sponsors are: Wernher von Braun, director, Development Operations Division, Army Ballistic Missile Agency; Allen B. DuMont, chairman of the board, Allen B. Dumont Laboratories, Inc.; T. Keith Glennan, president-on-leave, Case Institute of Technology, and administrator, National Aeronautics and Space Administration; Major General Emerson C. Itschner, chief of engineers, United States Army; Charles F. Kettering, General Motors Corporation; James R. Killian, Jr., special assistant to the President of the United States for science and technology; Clarence H. Linder, vice president, General Electric Company; Thomas E. Murray, consultant, Joint Committee on Atomic Energy; Granville M. Read, chief engineer, E. I. du Pont de Nemours and Company; Rear Admiral H. G. Rickover, chief of naval reactors, United States Atomic Energy Commission; Royal W. Sorensen, California Institute of Technology; Philip Sporn, president, American Gas and Electric Company; David B. Steinman, consulting engineer; Bertram D. Tallamy, Federal Highway Administrator; and Charles Allen Thomas, president, Monsanto Chemical Company.



# ISPE Codes Committee Program

## Will Assist Cities

Encouragement of municipalities to revise their building codes where needed, or to adopt codes if they have none was suggested by the building codes committee of ISPE at a meeting in Springfield recently.

Members of the committee are chairman, C. T. Morett of Springfield, Charles E. Hughes of Decatur, John P. Dahlberg of Galesburg, John Dolio of Chicago, William H. Klingner of Quincy and A. Y. Wade of Belleville.

The committee adopted a program to include:

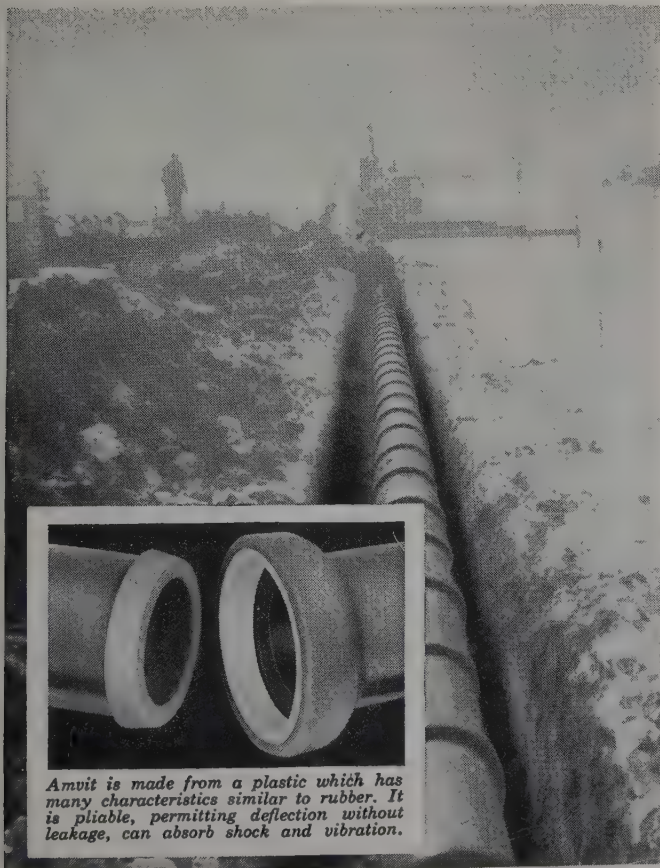
1. A study of the need and feasibility of a statewide building code to be adopted by the state.
2. Recommend that each chapter appoint code committees and arrange to have a committee member available in each chapter area on an advisory basis to assist local governments on code revision or adoption.
3. To provide speakers for civic group meetings to enlighten the public on the need for up-to-date building codes.
4. To make a continuing study of various standard codes in order that the best features of all may be

incorporated into recommended codes consistent with their adaptability to various community conditions.

The codes group plans another meeting prior to Nov. 1, to make definite proposals to present to the Board of Direction at the November 1 meeting in Springfield.

### MUNICIPAL LEAGUE HOLDS 45TH CONFERENCE

The Illinois Municipal League will hold its 45th Annual Conference in Springfield November 9th, 10th and 11th. A Pre-Conference session of the Resolutions Committee will get under way on Saturday November 8th. The Conference is the annual statewide meeting of officials of Illinois cities, villages and incorporated towns to determine Illinois Municipal Policy. Outstanding authorities and panel experts will present the latest information to aid local officials in the administration of municipal governmental affairs. A portion of the Conference will be a program for the Municipal Engineers.



Amvit is made from a plastic which has many characteristics similar to rubber. It is pliable, permitting deflection without leakage, can absorb shock and vibration.

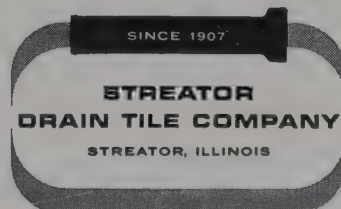
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— 2000 —

Dear Fellow Member:

The chart on the next page indicates that our Membership Campaign is beginning to bear fruit. The office reports that new applications are being received daily.

The reason for this is obvious. We introduced the "every member get a member" concept and many of you have entered into the spirit of the idea. For this we are most grateful and we wish to thank you for your cooperation.

We are particularly gratified for it appears a sufficient number of our members will be inspired to seek new applicants and that we will attain our goal of 2000. Many have indicated by their cooperation that they believe ISPE and NSPE can and will be the Society through which our profession shall gain maturity. Every member should embrace this idea and be an active salesman of the Society.

Get your new member today.

THE MEMBERSHIP COMMITTEE.

— 2000 —



# CHAPTER

# HONOR

# ROLL

# CHAPTER

# % GAIN

1. MADISON CO. 12.4
2. DU KANE 12.2
3. CHICAGO 11.4
4. WEST CENTRAL 7.3
5. CENTRAL ILLINOIS 6.6
6. AMBRAW 6.5
7. CAPITAL 6.4
8. CHAMPAIGN 6.0
9. EGYPTIAN 5.4
10. JOLIET 5.3
11. LAKE CO. 4.3
12. ROCKFORD 4.1
13. ILL. VALLEY 3.4
14. PEORIA AREA 3.2
15. ROCK RIVER 2.9
16. ST. CLAIR 0.0

CHAPTER	0	20%	40%	60%	80%	100%	120%	140%
AMBRAW Dewey R. Conner Jr.	10							
CAPITAL Marcus J. Rice	10							
CENTRAL ILLINOIS Lawrence C. Auby	10							
CHAMPAIGN George L. Sodemann	10							
CHICAGO Charles Zanzie	10							
DU KANE Donald S. Magowan	10							
EGYPTIAN	10							
ILLINOIS VALLEY James J. McNally	10							
JOLIET Bernard Anderhous	10							
LAKE COUNTY John C. Broecker	10							
MADISON COUNTY Clifford F. Abraham	10							
PEORIA AREA Thomas N. Landes	10							
ROCKFORD Roger K. Erickson	10							
ROCK RIVER Ralph C. Davis	10							
ST. CLAIR E.W. Markwardt	10							
WEST CENTRAL Charles R. Roberts	10							
CHICAGO HEIGHTS *	10							



2000 OR BUST

Percentage of Objective : 7.3 %

\* New Chapter  
17 Members

Harold F. Sommerschild



ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Inc.  
817 Myers Building, Springfield, Illinois

Date.....

To the Board of Direction of the  
Illinois Society of Professional Engineers:

I hereby apply for admission to the Society as a.....  
National, State, E-I-T, or Student  
member. If admitted, I agree to comply with the terms of the Constitution  
and the Code of Ethics of the Society, and wish to be enrolled in the  
.....Chapter.

FOR OFFICE USE ONLY

Appl'n Recd. ....  
Amount Enc. ....  
Ref. Written.....  
Ref. Recd. 1..... 2..... 3.....  
Presented to Bd. ....  
Elected.....  
Notified.....

I. ALL APPLICANTS complete the following ten spaces:

1. Full Name.....Name of Spouse.....  
Last First Middle CHECK PREFERRED MAILING ADDRESS
2. Residential Address.....Phone.....  
Street City State
3. Business Affiliation.....Position.....
4. Business Address.....Phone.....  
Street City State
5. Registration.....Reg. Number.....  
(Type of Certificate: Prof. Eng., Struct., etc. State Issued)
6. Engineering Field.....  
(Civil, Electrical, Mechanical, etc.)
7. Technical Society Affiliations and Grade of Membership.....
8. Birth.....  
Date Place Age Sex
9. Education.....  
Years School Date of Graduation Degree Obtained
10. Recommended by.....  
Signature.....

II. If you are NOT REGISTERED as a professional engineer, structural engineer or an E-I-T, complete the balance of the application form.

Names, addresses, and professional connections of three persons who may be consulted concerning my qualifications (preferably professional engineers who are members of this Society; action will be expedited by accompanying this application with the letters of reference).

1. ....  
Name Title Address Member NSPE-ISPE
2. ....
3. ....



## CHAPTER CHATTER

Melvin E. Amstutz and C. J. McLean, ISPE National Directors, will attend the NSPE Fall Meeting in San Francisco October 23-25. "Mac" will be expected to give a detailed report of the proceedings in the December issue of the ILLINOIS ENGINEER.

A group of structural engineers of Chicago have been exploring the need of a separate organization. They are primarily concerned with preserving and strengthening the structural engineer act. In a meeting with the group of the Engineers Club on September 30, ISPE President, Frank Edwards, and Larry Goddard, Society Executive Secretary, presented facts about ISPE to convince the group that it would be advantageous for them to come to the P.E. organization as a Functional Section. A full report of the structural group's decision will be in a later issue of the ILLINOIS ENGINEER.

On October 9, Director Vera M. Binks, Department of Registration and Education, gave the principal talk at the Chicago Chapter Recognition Dinner honoring newly registered professional engineers. The meeting was held at the Engineers' Club. Director Binks discussed the Professional Engineering Act and gave her personal views on the benefits of active participation in the Society of Professional Engineers.

Frank W. Edwards, I.S.P.E. President, introduced the new engineers and addressed a few remarks to impress the serious obligations connected with the engineering profession and led the group in reciting the Engineers' Creed.

The Chicago Chapter has noon-day meetings scheduled for each Monday through November. Marguerite Church, Congresswoman from Chicago, will speak to one of the luncheon meetings early in November.

The Young Engineers Committee for the Chicago Chapter has been promoting a Young Engineers program which will be highlighted by an address by Dr. Clark A. Dunn, N.S.P.E. president. Dr. Dunn will speak at the Chicago Chapter meeting to be held Thursday evening, November 13, at the Engineers' Club. Persons outside the Chicago Chapter are cordially invited to attend this meeting to hear President Dunn.

Dr. Max Suter, 69, retired as principal engineer of the Illinois State Water Survey on September 1. Noted for his studies in artificial recharge of ground water, he has been associated with the State Water Survey since 1936. From 1940 until last year, Dr. Suter was head of the Survey's Peoria laboratory where his research developed new theories with regard to replenishing ground water. Since 1957, he has been making a comprehensive study of ground water conditions in the Chicago region.

Dr. Suter received his civil engineering degree from the Federal Institute of Technology of Zurich, Switzerland. He received his master's and doctor's degrees in sanitary and hydraulic engineering, both from the University of Illinois.

He is a member of Illinois Society of Professional Engineers, and is a registered professional and structural engineer.

## ENGINEERING BASIS OF BLAW-KNOX EXPANSION

(Continued from page 4)

from the Defense Plant Corporation. This called for establishment of a standardized design synthetic rubber plant and assistance in constructing the facilities for the nation's urgently needed synthetic rubber program.



Left to right, B. L. McRill, I. L. McCandless, G. V. Carlson, W. J. Putnam, C. D. Greffe, and F. Seyforth.

Base for the construction field was substantially widened with the purchase in 1948 of the Foote Company, Inc., manufacturers of concrete and black top pavers. Purchase of the All Purpose Spreader Company in 1954 rounded out the Blaw-Knox highway paving package. Another 1954 acquisition, the Tri-Lok Company, improved the Blaw-Knox position in manufacture of open steel flooring.

In 1955 Blaw-Knox built a new plant in Mattoon, Illinois in which to concentrate manufacture of construction equipment.

Mr. Cleaves explained that the Mattoon location was selected because of its proximity to the U. S. center of population and a growing midwestern and western market. Although Blaw-Knox is going into its second half century, it is an expanding organization and there are many opportunities for engineers. Anyone interested in



Left to right, George Anderson, Ernest Kuncicky, W. D. Cleaves and Edward M. Anderson.



mechanical detail work who's experienced as a draftsman for design engineering is invited to contact Mr. Cleaves at Mattoon.

### COMING EVENTS

- Madison Chapter Edwardsville Gun Club—Recognition Dinner for New Engineers, (Edwards, Speaker) . . . . . Oct. 14
- St. Clair—Developments in the Missile Field in U. S.; Knights of Columbus Club, E. St. Louis . . . . . Oct. 15
- West Central Chapter, Galesburg . . . . . Oct. 15
- National Electronics Conference, Chicago . . Oct. 13, 14, 15
- Convention American Society of Civil Engineers, New York City . . . . . Oct. 15
- IAACE Fall Meeting, Allerton Park . . . . . Oct. 17, 18
- ISPE Chapters Membership Committee Chairman Meeting—Abraham Lincoln Hotel, Springfield, one assistant from each chapter invited . . . . . Oct. 18
- Central Illinois Chapter 3rd Annual Dinner Dance, Hotel Orlando, Decatur Engineers' Wives, Guests . . . . . Oct. 18
- DuKane Chapter Recognition Dinner for Newly Registered Engineers (Pres. Frank Edwards, Speaker) . . . . . Oct. 23
- Peoria Area Engineers Recognition Dinner (Judge Evan Yonty, Speaker) . . . . . Oct. 23
- NSPE—Fall Meeting, St. Francis Hotel, San Francisco . . . . . Oct. 23-25
- Combined Chapters Recognition Dinner, Central Illinois, Champaign and Capital Chapters Elks Building in Decatur . . . . . Oct. 28
- IAHE Convention, Springfield . . . . . Nov. 1
- Board of Direction Meeting, Springfield . . . . . Nov. 1
- Ill. Municipal League 45th Annual Conference Springfield . . . . . Nov. 9-11
- Chicago Chapter Eng. Club NSPE Pres. Dunn Speaker . . . . . Nov. 13
- St. Clair—Belleville, N. Side Optimist . . . . . Nov. 13
- Madison—Courthouse, Edwardsville . . . . . Nov. 18
- West Central Chapter, Rock Island-Moline . . . . . Nov. 19
- Lake County Chapter Recognition Dinner, Libertyville . . . . . Nov. 19
- Central Ill., Elks Bldg., Decatur . . . . . Nov. 20
- DuKane Chapter, Elgin . . . . . Nov. 20
- Illinois Valley Chapter . . . . . Nov. 25
- NSPE—Winter Meeting, Dinkler-Tutwiler Hotel, Birmingham, Alabama . . . . . Feb. 19-21, 1959

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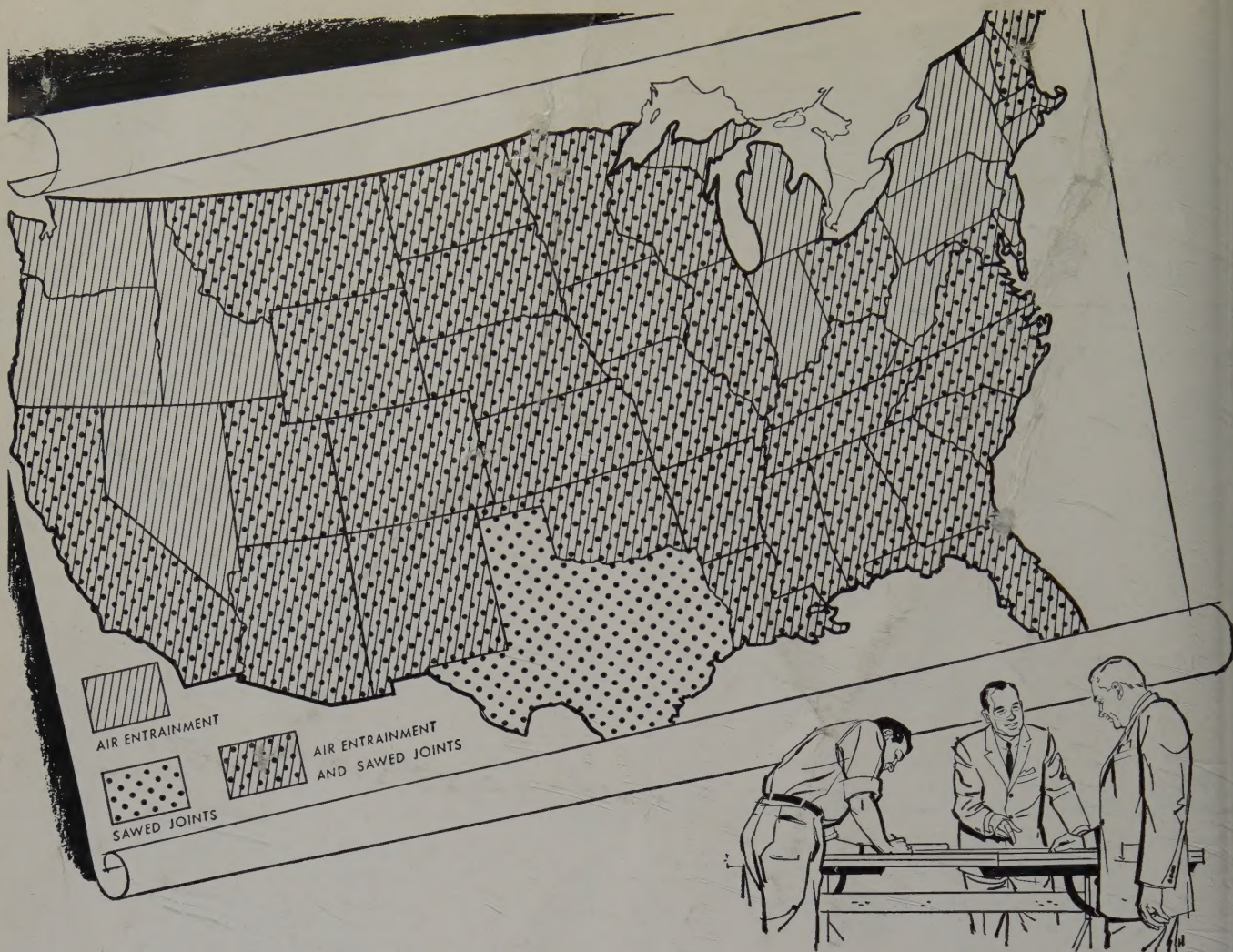
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## 48 state highway departments list new-type concrete in their specifications

Nationwide, state highway departments now have specifications to cover one or more advances that make today's concrete new-type. More and more states *require* design features like air entrainment and sawed joints for *all* new concrete construction—pavement and structures.

Through your work, you are keenly aware of these advances. You may have been active in their development.

But what about the *public*? The average driver doesn't

yet realize or appreciate what these advances mean to him in terms of increased comfort and safety. And that's where PCA's new national advertising takes a hand . . . to help you tell this story of today's new, smoother-riding concrete to the people who drive your highways.

The support of an informed public can help speed the big highway job . . . especially in the planning and building of the Interstate System.

**PORTLAND CEMENT ASSOCIATION**

111 West Washington Street, Chicago 2, Illinois

*A national organization to improve and extend the uses of concrete*

